

**PHYSEOPARDY**

Misc.  
Waves

Fill in  
The \_\_\_\_\_

... is an  
example  
of...

Picture  
Questions

Solving  
Problems

\$100

\$100

\$100

\$100

\$100

\$200

\$200

\$200

\$200

\$200

\$300

\$300

\$300

\$300

\$300

\$400

\$400

\$400

\$400

\$400

\$500

\$500

\$500

\$500

\$500

You have selected an area of the board not in play.

OOPS!

[Click here to go back to the main board](#)

## Misc. Waves - *\$100*

True or False:

You hear talking because air travels from the person's mouth into your ear and bounces off the ear drum.

ANSWER

## Misc. Waves - \$200

Pitch is the sound word for

- a. wave speed
- b. amplitude
- c. frequency

ANSWER

## Misc. Waves - \$300

You dip your finger repeatedly into a puddle of water and make waves.

What happens to the **wavelength** if you dip your finger more frequently?

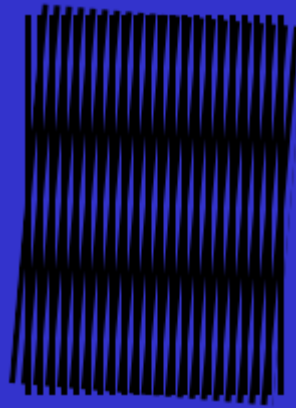
ANSWER

## Misc. Waves - *\$400*

What is the sound word for  
AMPLITUDE?

ANSWER

## Misc. Waves - \$500



This moire pattern is an example of

- A. Resonance
- B. Interference
- C. Forced Vibration
- D. none of these

ANSWER



*Fill in the \_\_\_\_\_ - \$100*

\_\_\_\_\_ is measured in hertz.

ANSWER

*Fill in the \_\_\_\_\_ - \$200*

\_\_\_\_\_ is when the medium vibrates along the direction of the wave.

ANSWER

*Fill in the \_\_\_\_\_ - \$300*

An object most easily vibrates  
at its \_\_\_\_\_.

ANSWER

*Fill in the \_\_\_\_\_ - \$400*

Sound is a wave that travels through a \_\_\_\_\_ .

ANSWER

*Fill in the \_\_\_\_\_ - \$500*

\_\_\_\_\_ does NOT affect  
wavelength or wave speed.

ANSWER

... is an example of...- *\$100*

When a motorcycle speeds by you, the sound of the motor drops noticeably in pitch. This is an example of...

ANSWER

... is an example of...- *\$200*

Someone gently pushing  
you at the right time on  
each swing makes you  
swing higher. This is an example  
of...

ANSWER

... is an example of...- *\$300*

A vibrating tuning fork is held to the body of a guitar, making it vibrate at the tuning fork's frequency. This is an example of...

ANSWER



... is an example of...- *\$400*

Doing “the wave”  
at a sporting event ...  
is an example of...

ANSWER

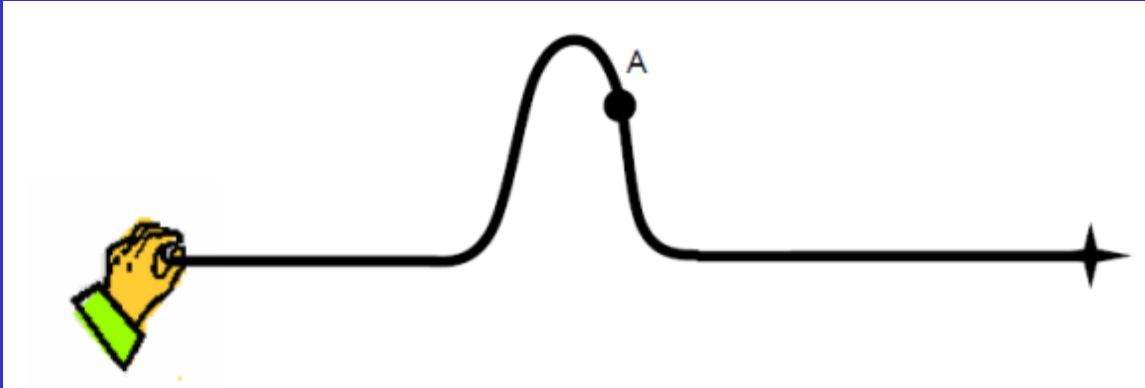
... is an example of...- \$500

A Rubens tube shows an example of...



ANSWER

## Picture Questions - \$100



If you advanced this movie one frame, the knot at point A would be

- A. in the same place
- B. higher
- C. lower
- D. to the right

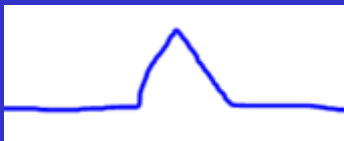
ANSWER

## Picture Questions - \$200



What will it look like when these 2 identical pulses meet in the middle?

A.



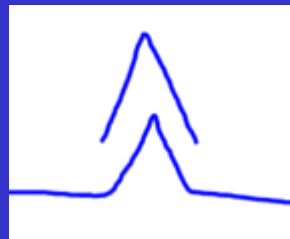
B.



C.



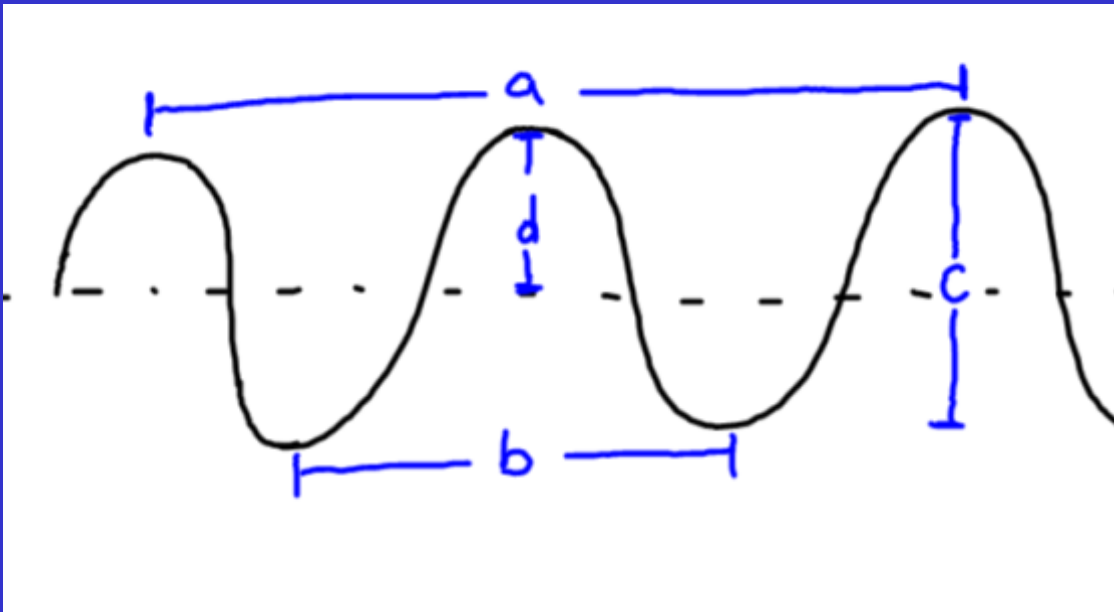
D.



ANSWER

# Picture Questions - \$300

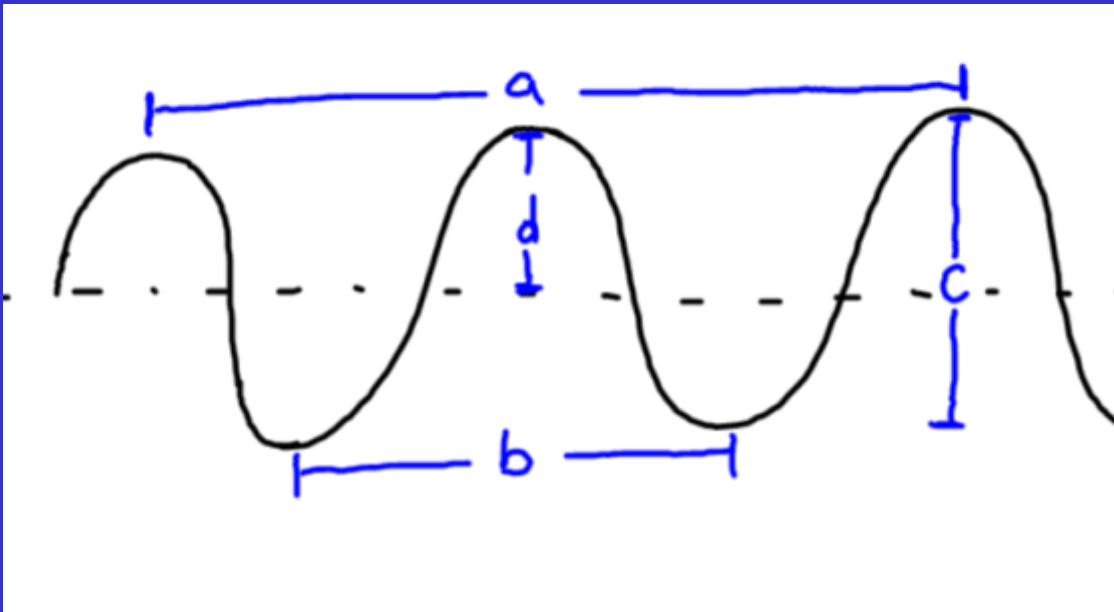
Which (a, b, c, or d) is the **amplitude** in this picture?



ANSWER

# Picture Questions - \$400

Which (a, b, c, or d) is the **wavelength** in this picture?



ANSWER

# Picture Questions - \$500



Which of the three categories of instruments would this be?

ANSWER

## Solving Problems - \$100

If my right hand can draw 80 dots in 10 seconds, how many do I make per second?

ANSWER



## Solving Problems - \$200

If something vibrates at 4 times per second, what is its **period**?

ANSWER

## Solving Problems - \$300

If a ball bounces every half second, what is its frequency?

ANSWER

## Solving Problems - \$400

If a spring has a wavelength of 0.5 m and a period of 0.5 sec, what is the wave speed?

ANSWER

## Solving Problems - \$500

If a spring is shaken up and down with a frequency of 2 Hz and it has a wavelength of 3 meters, what is the wave speed?

ANSWER

\*\*\*\**Answers*\*\*\*\*

## Misc. Waves - \$100

True or **False**:

You hear talking because air travels from the person's mouth into your ear and bounces off the ear drum.

DONE

## Misc. Waves - \$200

**Pitch** is the sound word for

a. wave speed

b. amplitude

**c. frequency**

DONE

## Misc. Waves - \$300

The wavelength gets shorter.

Tapping the water more frequently means less time for the crest to travel before there is a new one added.

DONE



## Misc. Waves - \$400

The sound word for  
AMPLITUDE is

INTENSITY

DONE

## Misc. Waves - \$500

This moire pattern is an example of

- A. Resonance
- B. Interference**
- C. Forced Vibration
- D. none of these

DONE

*Fill in the \_\_\_\_\_ - \$100*

**Frequency**

DONE

*Fill in the \_\_\_\_\_ - \$200*

**longitudinal**

DONE

*Fill in the \_\_\_\_\_ - \$300*

**natural  
frequency**

DONE

*Fill in the \_\_\_\_\_ - \$400*

**medium**

DONE

*Fill in the \_\_\_\_\_ - \$500*

**amplitude**

DONE

... is an example of...- *\$100*

# The Doppler Effect

DONE



... is an example of...- *\$200*

**Resonance**

DONE

... is an example of...- *\$300*

# Forced Vibration

DONE

... is an example of...- *\$400*

**A transverse  
wave  
(or a pulse)**

DONE

... is an example of...- *\$500*

**Standing  
wave  
(or a sound  
wave)**

DONE

# Picture Questions - \$100

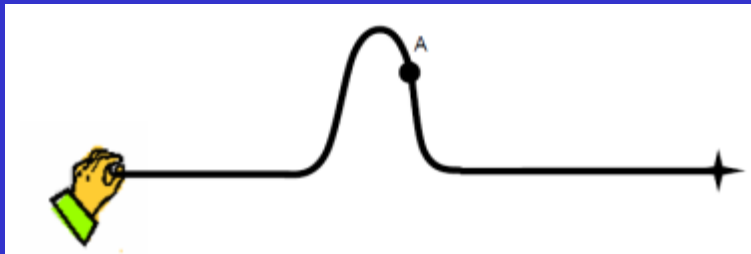
If you advanced this movie one frame, the not at point A would be

A. in the same place

**B. higher**

C. lower

D. to the right



DONE

## Picture Questions - \$200



What will it look like when these 2 identical pulses meet in the middle?

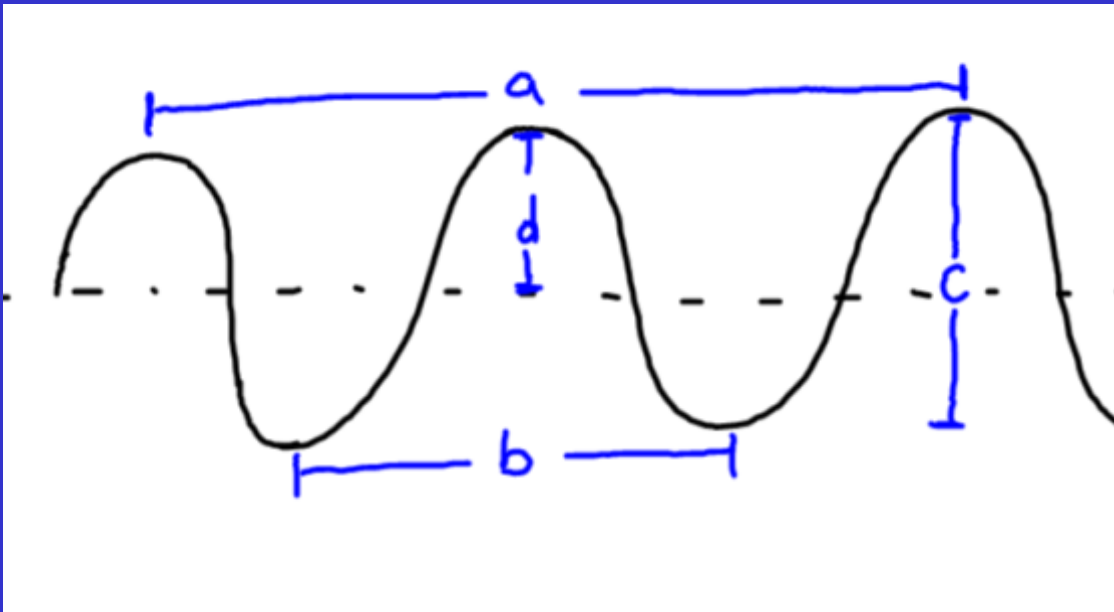
C.



DONE

# Picture Questions - \$300

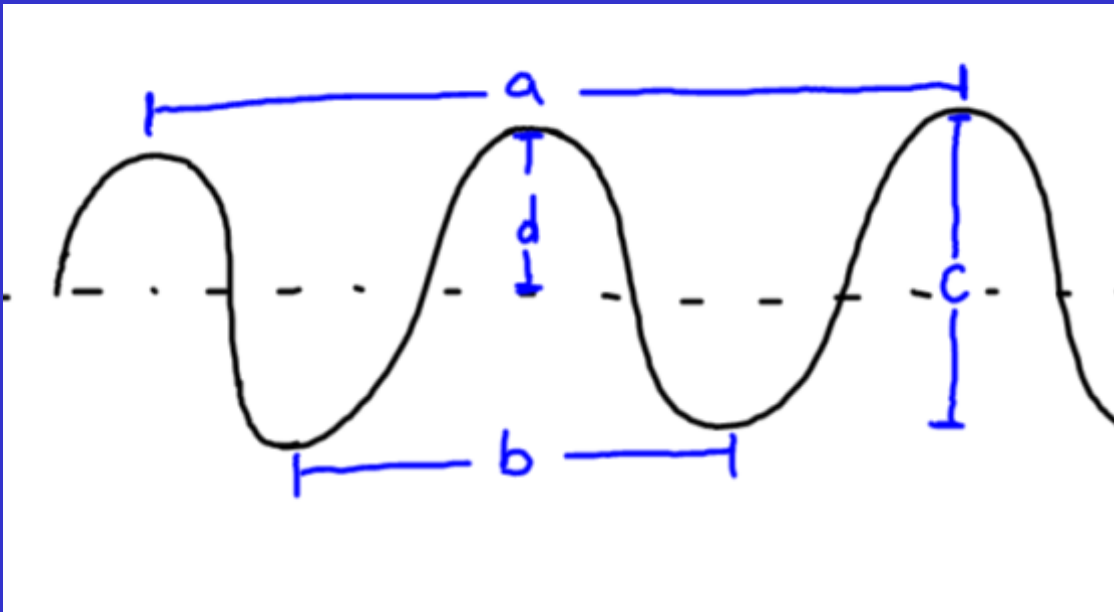
d.



DONE

# Picture Questions - \$400

b.



DONE



# Picture Questions - \$500



Percussion &/or air tubes

DONE

## Solving Problems - *\$100*

$$f = \# / \text{time}$$

$$= 80 / 10 \text{ s}$$

$$= 8 \text{ Hz}$$

DONE

## Solving Problems - \$200

$$\text{Period} = 1/f$$

$$= 1/4\text{Hz}$$

$$= 1/4 \text{ sec} = 0.25 \text{ sec}$$

DONE

## Solving Problems - \$300

$$\text{Frequency} = 1 / T$$

$$= 1 / .5\text{s}$$

$$= 2 \text{ Hz}$$

DONE

## Solving Problems - \$400

$$v = \lambda / T$$

$$= 0.5\text{m} / 0.5\text{s}$$

$$= 1 \text{ m/s}$$

DONE

## Solving Problems - \$500

$$v = f * \lambda$$

$$= 2 /s * 3m$$

$$= 6 \text{ m/s}$$

DONE

**DAILY  
DOUBLE**

CONTINUE

**DAILY  
DOUBLE**

CONTINUE



# Final Jeopardy

The Names of the Both Vice-Presidential Candidates.

Answer



# Final Jeopardy

# Election: 2008

Continue

# Final Jeopardy

Answer

Question:

Who are Gov. Sarah  
Palin and Sen.  
Joseph Biden, Jr.

# Directions for Changing the Game

- To change the questions and answers, just type over the problems...Use the “replace” feature to change the categories easily
- The daily doubles were originally set to category #4 for \$500 and category #2 for \$300
- To change the daily doubles you must
  - 1. Change the hyperlink for the links on the main board to go to the appropriate question, therefore bypassing the daily double slide
  - 2. Change the hyperlink on the continue button on each daily double slide to go to the new question.